

N/A

1643

#4
9.30.00

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/498,098DATE: 05/19/2000
TIME: 18:57:21

Input Set: I498098.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Stack, Jeffrey H.
2 Whitney, Michael
3 Cubitt, Andrew B.
4 Pollok, Brian A.
5 <120> TITLE OF INVENTION: METHODS OF PROTEIN DESTABILIZATION AND
6 USES THEREOF
7 <130> FILE REFERENCE: AU01330
8 <140> CURRENT APPLICATION NUMBER: US/09/498,098
9 <141> CURRENT FILING DATE: 2000-02-04
10 <160> NUMBER OF SEQ ID NOS: 74
11 <170> SOFTWARE: FastSEQ for Windows Version 4.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 6
14 <212> TYPE: PRT
15 <213> ORGANISM: Eukaryote
16 <220> FEATURE:
17 <221> NAME/KEY: VARIANT
18 <222> LOCATION: 2, 6
19 <223> OTHER INFORMATION: Phosphoserine
20 <400> SEQUENCE: 1
21 Asp Ser Gly Leu Asp Ser
22 1 5
23 <210> SEQ ID NO 2
24 <211> LENGTH: 228
25 <212> TYPE: DNA
26 <213> ORGANISM: Eukaryote
27 <400> SEQUENCE: 2
28 atggagatct tcgtgaagac tctgactggt aagaccatca ccctcgaagt ggagccgagt 60
29 gacaccattg agaatgtcaa ggcaaagatc caagacaagg aagggcatccc tcctgaccag 120
30 cagagggttg tctttgctgg gaaacagctg gaagatggac gcaccctgtc tgactacaac 180
31 atccagaaag agtccaccct gcacctggtg ctccgtctca gaggtggg 228
32 <210> SEQ ID NO 3
33 <211> LENGTH: 795
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <221> NAME/KEY: CDS
38 <222> LOCATION: (1)...(795)
39 <223> OTHER INFORMATION: cloning vector
40 <400> SEQUENCE: 3
41 atg agt cac cca gaa acg ctg gtg aaa gta aaa gat gct gaa gat cag 48
42 Met Ser His Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln
43 1 5 10 15
44 ttg ggt gca cga gtg ggt tac atc gaa ctg gat ctc aac agc ggt aag 96

RECEIVED

JUN 08 2000

TECH CENTER 1600/2900

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/498,098

 DATE: 05/19/2000
 TIME: 18:57:21

Input Set: I498098.RAW

45	Leu Gly Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys	
46	20 25 30	
47	atc ctt gag agt ttt cgc ccc gaa gaa cgt ttt cca atg atg agc act	144
48	Ile Leu Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr	
49	35 40 45	
50	ttt aaa gtt ctg cta tgt ggc gcg gta tta tcc cgt gtt gac gcc ggg	192
51	Phe Lys Val Leu Leu Cys Gly Ala Val Leu Ser Arg Val Asp Ala Gly	
52	50 55 60	
53	caa gag caa ctc ggt cgc cgc ata cac tat tct cag aat gac ttg gtt	240
54	Gln Glu Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val	
55	65 70 75 80	
56	gag tac tca cca gtc aca gaa aag cat ctt acg gat ggc atg aca gta	288
57	Glu Tyr Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val	
58	85 90 95	
59	aga gaa tta tgc agt gct gcc ata acc atg agt gat aac act gcg gcc	336
60	Arg Glu Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala	
61	100 105 110	
62	aac tta ctt ctg aca acg atc gga gga ccg aag gag cta acc gct ttt	384
63	Asn Leu Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe	
64	115 120 125	
65	ttg cac aac atg ggg gat cat gta act cgc ctt gat cgt tgg gaa ccg	432
66	Leu His Asn Met Gly Asp His Val Thr Arg Leu Asp Arg Trp Glu Pro	
67	130 135 140	
68	gag ctg aat gaa gcc ata cca aac gac gag cgt gac acc acg atg cct	480
69	Glu Leu Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro	
70	145 150 155 160	
71	gca gca atg gca aca acg ttg cgc aaa cta tta act ggc gaa cta ctt	528
72	Ala Ala Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu	
73	165 170 175	
74	act cta gct tcc cgg caa caa tta ata gac tgg atg gag gcg gat aaa	576
75	Thr Leu Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys	
76	180 185 190	
77	gtt gca gga cca ctt ctg cgc tcg gcc ctt ccg gct ggc tgg ttt att	624
78	Val Ala Gly Pro Leu Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile	
79	195 200 205	
80	gct gat aaa tct gga gcc ggt gag cgt ggg tct cgc ggt atc att gca	672
81	Ala Asp Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala	
82	210 215 220	
83	gca ctg ggg cca gat ggt aag ccc tcc cgt atc gta gtt atc tac acg	720
84	Ala Leu Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr	
85	225 230 235 240	
86	acg ggg agt cag gca act atg gat gaa cga aat aga cag atc gct gag	768
87	Thr Gly Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu	
88	245 250 255	
89	ata ggt gcc tca ctg att aag cat tgg	795
90	Ile Gly Ala Ser Leu Ile Lys His Trp	
91	260 265	

92 <210> SEQ ID NO 4
 93 <211> LENGTH: 858
 94 <212> TYPE: DNA

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/498,098

 DATE: 05/19/2000
 TIME: 18:57:21

Input Set: I498098.RAW

RECEIVED

JUN 08 2001

TECH CENTER 1600/251

```

95 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <221> NAME/KEY: CDS
98 <222> LOCATION: (1)...(858)
99 <223> OTHER INFORMATION: cloning vector
100 <400> SEQUENCE: 4
101   atg aga att caa cat ttc cgt gtc gcc ctt att ccc ttt ttt gcg gca      48
102   Met Arg Ile Gln His Phe Arg Val Ala Leu Ile Pro Phe Phe Ala Ala
103       1             5             10             15
104   ttt tgc ctt cct gtt ttt ggt cac cca gaa acg ctg gtg aaa gta aaa      96
105   Phe Cys Leu Pro Val Phe Gly His Pro Glu Thr Leu Val Lys Val Lys
106       20             25             30
107   gat gct gaa gat cag ttg ggt gca cga gtg ggt tac atc gaa ctg gat      144
108   Asp Ala Glu Asp Gln Leu Gly Ala Arg Val Gly Tyr Ile Glu Leu Asp
109       35             40             45
110   ctc aac agc ggt aag atc ctt gag agt ttt cgc ccc gaa gaa cgt ttt      192
111   Leu Asn Ser Gly Lys Ile Leu Glu Ser Phe Arg Pro Glu Glu Arg Phe
112       50             55             60
113   cca atg atg agc act ttt aaa gtt ctg cta tgt ggc gcg gta tta tcc      240
114   Pro Met Met Ser Thr Phe Lys Val Leu Leu Cys Gly Ala Val Leu Ser
115       65             70             75             80
116   cgt gtt gac gcc ggg caa gag caa ctc ggt cgc cgc ata cac tat tct      288
117   Arg Val Asp Ala Gly Gln Glu Gln Leu Gly Arg Arg Ile His Tyr Ser
118       85             90             95
119   cag aat gac ttg gtt gag tac tca cca gtc aca gaa aag cat ctt acg      336
120   Gln Asn Asp Leu Val Glu Tyr Ser Pro Val Thr Glu Lys His Leu Thr
121       100            105            110
122   gat ggc atg aca gta aga gaa tta tgc agt gct gcc ata acc atg agt      384
123   Asp Gly Met Thr Val Arg Glu Leu Cys Ser Ala Ala Ile Thr Met Ser
124       115            120            125
125   gat aac act gcg gcc aac tta ctt ctg aca acg atc gga gga ccg aag      432
126   Asp Asn Thr Ala Ala Asn Leu Leu Leu Thr Thr Ile Gly Gly Pro Lys
127       130            135            140
128   gag cta acc gct ttt ttg cac aac atg ggg gat cat gta act cgc ctt      480
129   Glu Leu Thr Ala Phe Leu His Asn Met Gly Asp His Val Thr Arg Leu
130       145            150            155            160
131   gat cgt tgg gaa ccg gag ctg aat gaa gcc ata cca aac gac gag cgt      528
132   Asp Arg Trp Glu Pro Glu Leu Asn Glu Ala Ile Pro Asn Asp Glu Arg
133       165            170            175
134   gac acc acg atg cct gca gca atg gca aca acg ttg cgc aaa cta tta      576
135   Asp Thr Thr Met Pro Ala Ala Met Ala Thr Thr Leu Arg Lys Leu Leu
136       180            185            190
137   act ggc gaa cta ctt act cta gct tcc cgg caa caa tta ata gac tgg      624
138   Thr Gly Glu Leu Leu Thr Leu Ala Ser Arg Gln Gln Leu Ile Asp Trp
139       195            200            205
140   atg gag gcg gat aaa gtt gca gga cca ctt ctg cgc tcg gcc ctt ccg      672
141   Met Glu Ala Asp Lys Val Ala Gly Pro Leu Leu Arg Ser Ala Leu Pro
142       210            215            220
143   gct ggc tgg ttt att gct gat aaa tct gga gcc ggt gag cgt ggg tct      720
144   Ala Gly Trp Phe Ile Ala Asp Lys Ser Gly Ala Gly Glu Arg Gly Ser

```

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/498,098

 DATE: 05/19/2000
 TIME: 18:57:21

Input Set: I498098.RAW

145	225	230	235	240	
146	cgc ggt atc att gca gca ctg ggg cca gat ggt aag ccc tcc cgt atc				768
147	Arg Gly Ile Ile Ala Ala Leu Gly Pro Asp Gly Lys Pro Ser Arg Ile				
148		245	250	255	
149	gta gtt atc tac acg acg ggg agt cag gca act atg gat gaa cga aat				816
150	Val Val Ile Tyr Thr Thr Gly Ser Gln Ala Thr Met Asp Glu Arg Asn				
151		260	265	270	
152	aga cag atc gct gag ata ggt gcc tca ctg att aag cat tgg				858
153	Arg Gln Ile Ala Glu Ile Gly Ala Ser Leu Ile Lys His Trp				
154		275	280	285	
155	<210> SEQ ID NO 5				
156	<211> LENGTH: 795				
157	<212> TYPE: DNA				
158	<213> ORGANISM: Artificial Sequence				
159	<220> FEATURE:				
160	<221> NAME/KEY: CDS				
161	<222> LOCATION: (1)...(795)				
162	<223> OTHER INFORMATION: cloning vector				
163	<400> SEQUENCE: 5				
164	atg ggg cac cca gaa acg ctg gtg aaa gta aaa gat gct gaa gat cag				48
165	Met Gly His Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln				
166	1 5 10 15				
167	ttg ggt gca cga gtg ggt tac atc gaa ctg gat ctc aac agc ggt aag				96
168	Leu Gly Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys				
169		20	25	30	
170	atc ctt gag agt ttt cgc ccc gaa gaa cgt ttt cca atg atg agc act				144
171	Ile Leu Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr				
172		35	40	45	
173	ttt aaa gtt ctg cta tgt ggc gcg gta tta tcc cgt gat gac gcc ggg				192
174	Phe Lys Val Leu Leu Cys Gly Ala Val Leu Ser Arg Asp Asp Ala Gly				
175		50	55	60	
176	caa gag caa ctc ggt cgc cgc ata cac tat tct cag aat gac ttg gtt				240
177	Gln Glu Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val				
178		65	70	75	80
179	gag tac tca cca gtc aca gaa aag cat ctt acg gat ggc atg aca gta				288
180	Glu Tyr Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val				
181		85	90	95	
182	aga gaa tta tgc agt gct gcc ata acc atg agt gat aac act gcg gcc				336
183	Arg Glu Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala				
184		100	105	110	
185	aac tta ctt ctg aca acg atc gga gga ccg aag gag cta acc gct ttt				384
186	Asn Leu Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe				
187		115	120	125	
188	ttg cac aac atg ggg gat cat gta act cgc ctt gat cat tgg gaa ccg				432
189	Leu His Asn Met Gly Asp His Val Thr Arg Leu Asp His Trp Glu Pro				
190		130	135	140	
191	gag ctg aat gaa gcc ata cca aac gac gag cgt gac acc acg atg cct				480
192	Glu Leu Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro				
193		145	150	155	160
194	gta gca atg gca aca acg ttg cgc aaa cta tta act ggc gaa cta ctt				528

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/498,098

 DATE: 05/19/2000
 TIME: 18:57:21

Input Set: I498098.RAW

```

195      Val Ala Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu
196                      165                      170                      175
197      act cta gct tcc cgg caa caa tta ata gac tgg atg gag gcg gat aaa      576
198      Thr Leu Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys
199                      180                      185                      190
200      gtt gca gga cca ctt ctg cgc tcg gcc ctt ccg gct ggc tgg ttt att      624
201      Val Ala Gly Pro Leu Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile
202                      195                      200                      205
203      gct gat aaa tct gga gcc ggt gag cgt ggg tct cgc ggt atc att gca      672
204      Ala Asp Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala
205                      210                      215                      220
206      gca ctg ggg cca gat ggt aag ccc tcc cgt atc gta gtt atc tac acg      720
207      Ala Leu Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr
208      225                      230                      235                      240
209      acg ggg agt cag gca act atg gat gaa cga aat aga cag atc gct gag      768
210      Thr Gly Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu
211                      245                      250                      255
212      ata ggt gcc tca ctg att aag cat tgg      795
213      Ile Gly Ala Ser Leu Ile Lys His Trp
214                      260                      265
215      <210> SEQ ID NO 6
216      <211> LENGTH: 792
217      <212> TYPE: DNA
218      <213> ORGANISM: Artificial Sequence
219      <220> FEATURE:
220      <221> NAME/KEY: CDS
221      <222> LOCATION: (1)...(792)
222      <223> OTHER INFORMATION: cloning vector
223      <400> SEQUENCE: 6
224      atg gac cca gaa acg ctg gtg aaa gta aaa gat gct gaa gat cag ttg      48
225      Met Asp Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln Leu
226      1                      5                      10                      15
227      ggt gca cga gtg ggt tac atc gaa ctg gat ctc aac agc ggt aag atc      96
228      Gly Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys Ile
229                      20                      25                      30
230      ctt gag agt ttt cgc ccc gaa gaa cgt ttt cca atg atg agc act ttt      144
231      Leu Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr Phe
232                      35                      40                      45
233      aaa gtt ctg cta tgt ggc gcg gta tta tcc cgt att gac gcc ggg caa      192
234      Lys Val Leu Leu Cys Gly Ala Val Leu Ser Arg Ile Asp Ala Gly Gln
235                      50                      55                      60
236      gag caa ctc ggt cgc cgc ata cac tat tct cag aat gac ttg gtt gag      240
237      Glu Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val Glu
238      65                      70                      75                      80
239      tac tca cca gtc aca gaa aag cat ctt acg gat ggc atg aca gta aga      288
240      Tyr Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val Arg
241                      85                      90                      95
242      gaa tta tgc agt gct gcc ata acc atg agt gat aac act gcg gcc aac      336
243      Glu Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala Asn
244                      100                      105                      110

```

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/498,098

DATE: 05/19/2000

TIME: 18:57:21

Input Set: I498098.RAW

Line ? Error/Warning

Original Text
